

## SUPERTROUT WINTER SCHOOL

November 21<sup>st</sup>- 25<sup>th</sup> 2022, Torino (Istituto Zooprofilattico Sperimentale of Piedmont, Liguria and Valle d'Aosta, Via Bologna, 148 - 10154 Turin, Italy)

### About the school

The school is organized as part of the activities of SUPERTROUT, a European project adopting an innovative approach to control lactococcosis in small-scale farming systems for trout production, mainly based on exploitation of natural genetic resistance of trout through marker assisted selection; development of recombinant vaccine to be administered by immersion; improvement of reproductive performances exploiting trout genetic features.

Starting from the specific activities of the project, the school will give an overview on general topics of importance for aquaculture: pathogens, disease management, genetic resistance to infectious diseases, immunology and vaccines, antibiotic resistance.

The participation in the Winter School is free for students, but they will have to provide for travel and accommodation costs.

Only 20 places are available due to logistic criticalities related to the training activities.

Registrations through this link: <https://formazione.izsto.it/>

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### Program

Monday, November 21 <sup>st</sup> 2022	
13:30 – 14:00	Opening of the works (Directors: IZSPLV, Dr. Angelo Ferrari; Veterinary Science Department UNITO, Prof. Domenico Bergero; API, Dr. Pier Antonio Salvador)
14:00 – 15:00	Introduction to SUPERTROUT project – Acutis P.L. (IZSPLV, Italy)
15:00-16:30	Trout Farming System – Sicuro B. (UNITO, Italy)
16:30– 16:45	Break
16.45 – 18:00	Emerging threats for trout farms –Pastorino P. (IZSPLV, Italy)

## Tuesday, November 22<sup>nd</sup> 2022

9:00 – 10:00	Traditional systems for disease management – Fabris A. (Associazione Piscicoltori Italiani, API)
10:00 – 11:00	Lactococcosis – Blanco M.M. (UCM, Spain)
11:00 – 11:30	Break
11:30 – 12:30	Antibiotic resistance – Altinok I. (KTU, Turkey)
12:30 – 13:30	Lunch
13:30 – 15:00	Vaccinology – Bitchava K. and Kotzamanidis C. (Agricultural University of Athens and ELGO-DEMETER, Greece)
15:00 – 16:30	Fundamentals of vaccine immunology – Volpatti D. (UNIUD, Italy)

## Wednesday, November 23<sup>rd</sup> 2022

9:00 – 10:00	Molecular characterization of <i>L. garvieae</i> strains – Fernandez-Garayzabal J.F. (VISAVET-UCM, Spain)
10:00 – 11:00	Pathogenicity of <i>L. garvieae</i> strains - Altinok I. and Colussi S. (KTU, Turkey and IZSPLV, Italy)
11:00 – 11:30	Break
11:30 – 12:30	Antimicrobial resistance genes - Cagri-Ozturk R. (KTU, Turkey)
12:30 – 13:30	Genetic resistance to infectious diseases in trout – Colussi S. (IZSPLV, Italy)
13:30 – 14:30	Lunch
14:30 – 15:30	Genomic resistance to infectious diseases – Ajmone-Marsan P. (UNICAT, Italy)
15:30 – 16:30	Breeding for disease resistance – Fariano L. (AACC, Italy)

### Thursday, November 24<sup>th</sup>2022- Training activities

9:00 – 10:30	Transfer travel from Torino to trout farm Trout farm Azienda Agricola Canali Cavour, Centallo (CN), Fariano L.
10:30 – 12:30	Physiology of reproduction and practical activities
12:30 – 13:30	Lunch
13:30 -15:30	Physiology of reproduction and practical activities
15:30 – 17:00	Transfer travel from trout farm to Torino

\*a free shuttle transfer from Torino veterinary department to the trout farm will be organized for a maximum of 50 participants, teachers included.

### 18:00 Speed dating with the speakers

### Friday, November 25<sup>th</sup>2022

9:00 – 10:00	Regulations and experimental procedures for experimental trial using teleosts – Toffan A. and Pascoli F. (IZSVE, Italy)
10:00 – 11:00	Experimental infection with <i>L. garvieae</i> – Volpatti D. (UNIUD, Italy)
11:00 – 12:00	The genetic environmental impact of inland fish farming: the Italian situation and the case of Azienda Canali Cavour in the Piedmont region (NW Italy) – Fariano L. and Sicuro B. (AACC and UNITO, Italy)
12:00 -12:30	Presentation of the new center for biodiversity in Avigliana– Pastorino P. Conclusions -Acutis P.L. (IZSPLV, Italy)